

AMENDMENTS

Please amend the following claims, wherein strike through denotes a deletion and an underline denotes an addition.

1. (Original) A system for selectively blocking event signals associated with operating systems, comprising:

an operating system configured to detect an occurrence of an event and to transmit an event signal corresponding to said event;

a first data structure having a first value indicating whether said event signal is blocked; and

a device responsive to a system call for updating said first value in said first data structure, said device configured to receive said event signal from said operating system and to transmit a signal indicating said occurrence of said event in the absence of an indication from said first value that said event signal is blocked.

2. (Original) The system of claim 1, wherein said indication corresponds to a set bit of a bit vector.

3. (Original) The system of claim 1, wherein said device is a translation device configured to intercept and interpret signals from said operating system and a software program.

4. (Original) The system of claim 1, wherein said system call is an instruction for said operating system to block said event signal.
5. (Original) The system of claim 1, wherein said system for selectively blocking is associated with a translation system that receives signals transmitted to said operating system, interprets said signals, and translates said signals into a form compatible with said operating system.
6. (Original) The system of claim 1, wherein said first value is defined by a bit associated with a bit vector.
7. (Original) The system of claim 1, further comprising a second data structure having a second value corresponding with said first value and configured to indicate that said device received said event signal, and wherein said device is further configured to transmit said signal indicating said occurrence of said event based on said second value.
8. (Original) The system of claim 7, wherein said system call is configured to instruct said operating system to unblock said event signal.

9. (Original) A system for selectively blocking event signals associated with an operating system, comprising:

a first data structure having a plurality of values, each of said plurality of values indicating whether a corresponding event signal is blocked; and

a device responsive to system calls for controlling said plurality of values in said first data structure and responsive to an event signal from said operating system for analyzing one of said plurality of values corresponding to said event signal in order to determine whether said event signal is blocked,

wherein said device transmits a signal corresponding to said event signal when said device determines that said event signal is not blocked based on said one of said plurality of values.

10. (Original) The system of claim 9, wherein said system for selectively blocking is associated with a translation system that receives signals transmitted to said operating system, interprets said signals, and translates said signals into a form compatible with said operating system.

11. (Original) The system of claim 9, wherein said first data structure is defined by a bit vector.

12. (Original) The system of claim 9, further comprising a second data structure having a second plurality of values, each of said second plurality of values

indicating whether a corresponding blocked event signal has been received by said device.

13.-14. (Cancelled).

15. (Original) A method for selectively blocking event signals associated with an operating system, comprising the steps of:

intercepting an event signal from said operating system;

determining whether said event signal is blocked subsequent to said intercepting step; and

transmitting a signal corresponding to said event signal in the absence of a determination that said signal is blocked.

16. (Original) The method of claim 15, further comprising the steps of:

receiving an unblocking system call corresponding to an event associated with said event signal;

determining whether said event occurred prior to said receiving step; and

transmitting said signal corresponding to said event signal when said event occurred prior to said receiving step.

17. (Original) The method of claim 15, further comprising the steps of:

receiving a system call indicating whether said event signal is blocked; and

indicating whether said event signal is blocked based on said receiving step.

18. (Original) The method of claim 17, wherein said system call is a blocking system call.

19. (Original) A system for selectively blocking event signals associated with an operating system, comprising:

means for intercepting an event signal from said operating system;

means for determining whether said event signal is blocked subsequent to said intercepting step; and

means for transmitting a signal corresponding to said event signal in the absence of a determination that said event signal is blocked.

20. (Original) The system of claim 19, further comprising:

means for receiving an unblocking system call corresponding to an event associated with said event signal;

means for determining whether said event occurred prior to said receiving step; and

means for transmitting said signal corresponding to said event signal when said event occurred prior to said receiving step.

21. (Original) The system of claim 19, further comprising:
means for receiving a system call indicating whether said event signal is blocked; and
means for indicating whether said event signal is blocked based on said receiving step.

22. (Original) The system of claim 21, wherein said system call is a blocking system call.

23. (New) A method for selectively blocking event signals associated with operating systems, comprising:
storing an application program;
detecting an occurrence of an event;
determining, in a first determination and in response to said occurrence, whether said application program is associated with a signal handler that is configured to respond to said occurrence;
determining, in a second determination and in response to said first determination, whether said operating system is enabled to notify said signal handler of said occurrence;
transmitting an event signal indicative of said occurrence in response to said second determination, if said operating system, via said second determination, determines that said operating system is enabled to notify said signal handler of said occurrence;

storing a first data structure having a plurality of values, said plurality of values indicating whether corresponding event signals are blocked; and

analyzing one of said plurality of values corresponding to said event signal in order to determine whether said event signal is blocked;

receiving a signal from said application program;

translating said application program signal from a form incompatible with said operating system into a form compatible with said operating system;

sending the translated signal to said operating system;

transmitting a signal indicative of said occurrence if one of said plurality of values indicates that said event is not blocked;

analyzing one of a second plurality of values in response to an unblocking system call; and

transmitting a particular signal when said one of said second plurality of values indicates that said blocked event signal has been received by said device.

24. (New) A method for selectively blocking and unblocking event signals associated with operating systems, comprising the steps of:

receiving a signal from a program application;

determining if the signal is a blocking or an unblocking system call;

translating the signal from a form incompatible with said operating system into a form compatible with said operating system and if the signal is not a blocking signal or an unblocking signal, sending the translated signal to the operating system;

detecting an occurrence of an event;

identifying a signal handler in response to said detecting step;

determining, in response to said identifying step, that an operating system is enabled to notify said identified signal handler of said occurrence;

transmitting an event signal from said operating system in response to said determining step;

receiving said event signal;

maintaining a first data value indicative of whether said event signal is blocked;

analyzing said first data value in response to said receiving said event signal step;

transmitting a signal indicative of said occurrence of said event to said signal handler, based on said analyzing step, if said first data value indicates that said event signal is unblocked during said analyzing step;

updating a second data value, in response to said receiving said event signal step, if said first value indicates, during said analyzing step, that said event signal is blocked;

receiving a request to unblock said event signal;

updating said first data value in response to said receiving a request to unblock step; and

transmitting a signal indicative of said occurrence of said event to said signal handler in response to said receiving a request to unblock step and based on said second data value.

25. (New) The method of claim 24, wherein said determining that said operating system is enabled step is based on whether said operating system has received

a blocking system call from an application program that is associated with said identified signal handler.

26. (New) A system for selectively blocking event signals associated with operating systems, comprising:

an operating system configured to detect an occurrence of an event and to transmit an event signal corresponding to said event;

a first data structure having a first value indicating whether said event signal is blocked; and

a device responsive to a system call for updating said first value in said first data structure, said device configured to receive said event signal from said operating system and to transmit a signal indicating said occurrence of said event in the absence of an indication from said first value that said event signal is blocked, said device further configured to store a second value if said first value indicates that said event signal is blocked, said second value indicative of said occurrence of said event while said event signal was blocked, said device further configured to analyze said second value in response to an unblocking system call and transmit a particular signal when said second value indicates said occurrence of said event while said event signal was blocked.

27. (New) A system for selectively blocking event signals associated with an operating system, comprising:

a first data structure having a plurality of first values, each of said plurality of values indicating whether a corresponding event signal is blocked;

a second data structure having a plurality of second values, each of said plurality of second values corresponding to each of said plurality of first values, each of said second values indicating whether an event signal was received while said first value corresponding to said second value indicated that said event signal was blocked; and

a device responsive to system calls for controlling said plurality of first values in said first data structure and responsive to an event signal from said operating system for analyzing one of said plurality of first values corresponding to said event signal in order to determine whether said event signal is blocked,

wherein said device transmits a signal corresponding to said event signal when said device determines that said event signal is not blocked based on said one of said plurality of values and said device transmits another signal corresponding to said event signal, in response to an unblocking system call, when said device determines that said event signal was blocked based upon said one of said plurality of second values.

28. (New) A method for selectively blocking event signals associated with an operating system, comprising the steps of:

intercepting an event signal from said operating system;

determining whether said event signal is blocked subsequent to said intercepting step; and

transmitting a signal corresponding to said event signal in the absence of a determination that said signal is blocked;

setting a value indicative of intercepting said event signal if said event signal is blocked; and

transmitting another signal, in response to an unblocking system call from said operating system, if said value indicates that said event signal was blocked.

29. (New) A system for selectively blocking event signals associated with an operating system, comprising:

means for intercepting an event signal from said operating system;

means for determining whether said event signal is blocked subsequent to said intercepting step; means for transmitting a signal corresponding to said event signal in the absence of a determination that said event signal is blocked;

means for setting a value indicative of intercepting said event signal if said event signal is blocked; and

means for transmitting another signal, in response to an unblocking system call from said operating system, if said value indicates that said event signal was blocked.